Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-12-26-03 **Date: 29-12-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains sai road at Hegade Nagara in ward No.06.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/38/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-03/01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	27-12-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.78	–
2	Finess by Air permeablity method (m^2/kg, Min)	291.4	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-12-26-03** **Date: 24-01-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains sai road at Hegade Nagara in ward No.06.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/38/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-03/01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	27-12-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-12-26-03** **Date: 29-12-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains sai road at Hegade Nagara in ward No.06.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/38/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-03/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-12-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	714	714	4.8	95.2	90-100
3	20 mm	6785	7499	50.0	50.0	30-70
4	10 mm	4514	12013	80.1	19.9	10-35
5	4.75 mm	2585	14598	97.3	2.7	0-5
6	Pan	402	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-12-26-03** **Date: 29-12-17**

Sample ID No : 2017-12-26-03/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.61	_
4	Bulk Density(Loose) (Kg/l)	1.5	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.29	_

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-12-26-03** **Date: 29-12-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains sai road at Hegade Nagara in ward No.06.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer Reference	:	BBMP/EE/BTP/WO/38/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-03/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-12-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	285	285	5.7	94.3	90-100
3	10 mm	2485	2770	55.4	44.6	25-55
4	4.75 mm	2074	4844	96.9	3.1	0-10
5	Pan	156	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-12-26-03** **Date: 29-12-17**

Sample ID No : 2017-12-26-03/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.4**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**10.7**	
3	Specific Gravity	**2.62**	–
4	Bulk Density(Loose) (Kg/l)	**1.50**	–
5	Bulk Density(Compacted) (Kg/l)	**1.54**	–
6	Water Absorption(%)	**0.25**	–
7	Aggregate crushing Value(%)	**24.4**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**22.1**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-12-26-03** **Date: 29-12-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains sai road at Hegade Nagara in ward No.06.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/38/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-03/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	26-12-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	174	195	19.5	80.5	60-95	75-100	85-100	95-100
4	1.18 mm	214	409	40.9	59.1	30-70	55-90	75-100	90-100
5	600 micron	224	633	63.3	36.7	15-34	35-59	60-79	80-100
6	300 micron	158	791	79.1	20.9	5-20	8-30	12-40	15-50
7	150 micron	124	915	91.5	8.5	0-10	0-10	0-10	0-15
8	Pan	85	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-12-26-03** **Date: 29-12-17**

Sample ID No : 2017-12-26-03/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.14	_
2	Specific Gravity	2.57	_
3	Material finer than 75 micron(%)	7.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-12-26-03** **Date: 28-12-17**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains sai road at Hegade Nagara in ward No.06.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/38/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-03/04
Sample Type	:	Indus
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	27-12-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Indus	Fe500	8	0.392	542	668	20.0%	Satisfactory	Satisfactory
2	Indus	Fe500	10	0.615	568	682	20.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-01-05-02** **Date: 09-01-18**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains sai road at Hegade Nagara in ward No.06.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/38/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-01-18
Sample ID No	:	2018-01-05-02/01
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	05/01/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.316	4477	76.9	17.2	16.0	20.0
2	Cover Slab-2	75.49	100.52	1.332	4475	77.3	17.3	16.1	20.1
3	Cover Slab-3	75.50	100.51	1.325	4476	76.5	17.1	15.9	19.9

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-11-01** **Date: 05/02/2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements of roads and drains sai road at Hegade Nagara in ward No.06.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/38/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-01-18

Sample ID No : 2018-01-11-01/08

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/02/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	08/01/2017	05/02/2017	149.22 X 149.54 X 148.23	22314	8.168	495.4	22.2	22.2
2	M20 Concrete	M20	08/01/2017	05/02/2017	151.22 X 148.44 X 149.67	22447	8.192	502.8	22.4	
3	M20 Concrete	M20	08/01/2017	05/02/2017	150.22 X 151.84 X 149.55	22809	8.177	504.1	22.1	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-11-01** **Date: 15/01/2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements of roads and drains sai road at Hegade Nagara in ward No.06.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/38/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-01-18

Sample ID No : 2018-01-11-01/07

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/01/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	08/01/2017	15/01/2017	151.73 X 151.54 X 150.23	22993	8.182	388.6	16.9	17.1
2	M20 Concrete	M20	08/01/2017	15/01/2017	150.22 X 151.44 X 150.67	22749	8.213	384.5	16.9	
3	M20 Concrete	M20	08/01/2017	15/01/2017	151.22 X 150.84 X 151.55	22810	8.194	399.2	17.5	

Note:

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-11-01** **Date: 05/02/2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements of roads and drains sai road at Hegade Nagara in ward No.06.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/38/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-01-18

Sample ID No : 2018-01-11-01/06

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/02/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	08/01/2017	05/02/2017	150.22 X 150.54 X 149.59	22614	8.172	524.6	23.2	22.3
2	M20 Concrete	M20	08/01/2017	05/02/2017	151.22 X 149.88 X 150.45	22665	8.079	510.0	22.5	
3	M20 Concrete	M20	08/01/2017	05/02/2017	150.19 X 151.75 X 150.63	22791	8.215	485.5	21.3	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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AE Ward No 6
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-01-11-01** **Date: 15/01/2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains sai road at Hegade Nagara in ward No.06.
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010
Customer's Reference	:	BBMP/EE/BTP/WO/38/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-01-18
Sample ID No	:	2018-01-11-01/05
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/01/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	08/01/2017	15/01/2017	149.65 X 149.40 X 150.42	22358	8.135	401.4	18.0	17.7
2	M20 Concrete	M20	08/01/2017	15/01/2017	151.20 X 149.35 X 150.35	22582	8.170	396.8	17.6	
3	M20 Concrete	M20	08/01/2017	15/01/2017	150.45 X 150.41 X 149.89	22629	8.165	397.6	17.6	

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AE ward no 6
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-11-01** **Date: 05/02/2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements of roads and drains sai road at Hegade Nagara in ward No.06.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/38/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-01-18

Sample ID No : 2018-01-11-01/04

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/02/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	08/01/2017	05/02/2017	150.42 X 150.54 X 150.55	22644	8.241	493.6	21.8	22.0
2	M20 Concrete	M20	08/01/2017	05/02/2017	150.32 X 150.54 X 150.35	22629	8.278	502.4	22.2	
3	M20 Concrete	M20	08/01/2017	05/02/2017	150.42 X 150.54 X 150.37	22644	8.321	498.2	22.0	

Note:

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BIS ward no 6

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-11-01** **Date: 15/01/2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements of roads and drains sai road at Hegade Nagara in ward No.06.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/38/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-01-18

Sample ID No : 2018-01-11-01/03

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/01/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	08/01/2017	15/01/2017	150.42 X 150.54 X 150.55	22644	8.241	389.5	17.2	17.4
2	M20 Concrete	M20	08/01/2017	15/01/2017	150.32 X 150.54 X 150.35	22629	8.278	398.3	17.6	
3	M20 Concrete	M20	08/01/2017	15/01/2017	150.42 X 150.54 X 150.37	22644	8.321	394.0	17.4	

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AK ward no 6

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವ್ಯಾಪ್ತಿರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-11-01** **Date: 05/02/2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements of roads and drains sai road at Hegade Nagara in ward No.06.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/38/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-01-18

Sample ID No : 2018-01-11-01/02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/02/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	08/01/2017	05/02/2017	150.13 X 150.15 X 150.19	22542	8.213	495.9	22.0	22.2
2	M20 Concrete	M20	08/01/2017	05/02/2017	150.23 X 150.24 X 150.25	22571	8.221	521.4	23.1	
3	M20 Concrete	M20	08/01/2017	05/02/2017	150.29 X 150.39 X 150.44	22602	8.242	483.7	21.4	

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ವ್ಯಾಪ್ತಿಯಲ್ಲಿರುವ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-11-01** **Date: 15/01/2017**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements of roads and drains sai road at Hegade Nagara in ward No.06.

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010

Customer's Reference : BBMP/EE/BTP/WO/38/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-01-18

Sample ID No : 2018-01-11-01/01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/01/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	08/01/2017	15/01/2017	150.22 X 150.77 X 150.54	22649	8.216	391.8	17.3	17.2
2	M20 Concrete	M20	08/01/2017	15/01/2017	151.98 X 150.23 X 150.22	22832	8.182	381.3	16.7	
3	M20 Concrete	M20	08/01/2017	15/01/2017	150.78 X 150.56 X 150.55	22701	8.229	399.5	17.6	

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